KOGEN-DALIN V. V.

ANVEL'T, Moyya Yur'yevich; GERASIMOV, Viktor Grigor'yevich; ZAYDEL', Khristina Eduardovna; KOGEN-DALIN, Vladimir Viktorovich; LYSOV, Nikolay Yegorovich; MOROZOV, Dmitriy Nikolayevich; NITUSOV, Yevgeniy Vasil'yevich; PANTYUSHIN, Vasiliy Sergeyevich, prof.; PUKHLYAKOV, Yuriy Kharlampiyevich; SMIRNOV, Vladimir Aleksandrovich; UTKIN, Ivan Vasil'yevich; SHAROKHIN, Grigoriy Ivanovich; KASATKIN, A.S., retsenzent, red.; BORUNOV, N.I., tekhn.red.

[Electrical engineering; general course] Elektrotekhnika; obshchii kurs. Pod red. V.S.Pantiushina. Moskva, Gos.energ. izd-vo, 1959. 632 p. (MIRA 13:1)
(Electricity)

KOGEN-DALIN, V.V.

Mathematical model of a powerful a.c. corona. Nauch.dokl.vys. shkoly; energ. no.1:247-254 '59. (MIRA 12:5)

1. Rekomendovana kafedroy obshchey elektrotekhniki Moskovskogo energeticheskogo instituta.
(Corona (Electricity)--Mathematical models)

KOGEN-DALIN, Vladimir Viktorovich, kand.tekhn.nauk, dotsent

Design of transformer models for studying the quasi-stationary processes in electrical systems. Izv.vys.ucheb.zav.; elektromekh. 5 no.9:978-974 '62. (MIRA 16:1)

1. Kafedra obshchey elektrotekhniki Moskovskogo energeticheskogo instituta.
(Electric transformers) (Electric networks)

BABIKOV, Maksim Alekseyevich, prof.; KOMAROV, Nikita Semenovich; SERGEYEV, Aleksandr Sergeyevich; KUKHARKIN, Ye.P., dots., retsenzent; KOGEN-DALIN, V.V., dots., kand. tekhn.nauk, red.; LARIONOV, G.Ye., tekhn. red.

[High-voltage engineering] Tekhnika vysokikh napriazhenii. Izd.3., perer. Moskva, Gosenergoizdat, 1963. 670 p. (MIRA 17:2)

L 9199-66 EWT(1)/FCS(k) /T/ETC(m)/EWA(1) IJP(c) WW/AT

ACC NR: AR6000104 SOURCE CODE: UR/0058/65/000/008/G006/G006

SOURCE: Ref. zh. Fizika, Abs. 8G43

AUTHORS: Kogen-Dalin, V. V.; Volchenskov, V. I.

ORG: none

TITLE: Theoretical investigation of the operation of an electrodynamic converter of the energy of a gas stream into electricity

CITED SOURCE: Tr. Mosk. energ. in-ta, vyp. 57, 1964, 187-209

TOPIC TAGS: kinetic energy conversion, electrodynamics, gas dynamics

TRANSLATION: An analysis is presented of the operating conditions of a most simple converter of the energy of a gas stream into electricity. A converter with a stream of charged particles whose velocity v remains constant in the working volume is considered. Formulas are derived for the voltage and power developed by the generator. The obtained expressions are analyzed and practical conclusions are drawn concerning the advantageous trends in the construction of electrodynamic-type converters.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 000/ OTH REF: 000

Card 1/1

KOGEN-DALIN, V.V.; KHUSEYN NIGM

Calorimetering unit for measuring magnetic losses. Izm. tekh. no.11:30-32 N '65. (MIRA 18:12)

KOGEN-DALIN, V.V.; SOKOLOVA, M.V.

Probability of dangerous lightning surges in insulated neutral lines of 110-220 kv. transformers. Trudy MEI no.64:149-158 '65.

Methods for calculating the probability of dangerous lightning surges in insulated neutral lines of 110-220 kv. transformers. Ibid.:159-178 (MIRA 19:1)

L 00646-67 EWT(1)

ACC NR: AP6014519 (A,N) SOURCE CODE: UR/0115/65/000/011/0030/0032

AUTHOR: Kogan-Dalin, V. V.; Khuseyn Nigm

ORG: none

TITLE: Calorimetric outfit for measuring magnetic losses

SOURCE: Izmeritel'naya tekhnika, no. 11, 1965, 30-32

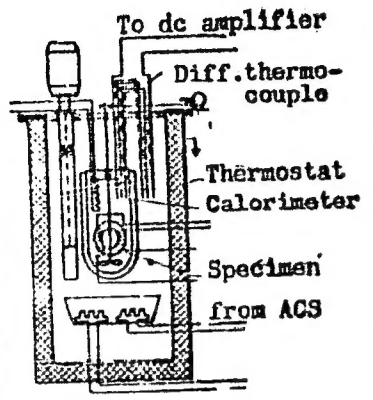
TOPIC TAGS: ferromagnetic material, calorimeter, MAGNETISM

ABSTRACT: The widely used isothermic-envelope calorimeters have two shortcomings: (a) errors due to heat exchange between the calorimeter and the ambient medium and (b) errors due to heat from friction between the stirrer and the working liquid. The differential calorimetric method is too cumbersome for practical use. Hence, the authors suggest a new calorimetric outfit (see figure) which has an "adiabatic" envelope and almost completely precludes the ill effects of heat exchange. The thermal process is described by this equation: $Pdt = \sum_{i=1}^{n} m_i C_i d\theta_i$ if the energy liberated in the calorimeter by undesirable heat sources is exactly equal to the heat loss into the ambient medium: $Qdt = kS(\theta - \theta_0)$. Here, Pdt is the energy liberated by the

Card 1/2 UDC: 621.317.43:536.62

L 00656-67

ACC NR: AP6014519 O



specimen; $\sum_{i=1}^{n} m_i C_i d\theta_i$ is the energy spent for heating the calorimeter system; k, S are the heat-transfer factor and cooling surface of the calorimeter system; ϑ, θ are the temperatures of the calorimeter and ambient medium, respectively. An automatic control system (ACS) maintains the conditions which satisfy the above equations at all times. Tests of the new outfit showed that: (1) The loss in soft magnetic specimens magnetized at frequencies up to a few Mc can be measured; (2) The outfit error is 1.5% (for a few mw loss) and 1% (dozens watt loss); (3) The ambient temperature may considerably differ from the room temperature. Orig. art. has: 2 figures and 7 formulas.

SUB CODE: 20,14 / SUBM DATE: none / ORIG REF: 002

Card 2/2 hs

VERNIKOV, Ya.N.; KOGENMAN, A.G.

Test results of the automatic compounding of loose and liquid ingredients at the "Kauchuk" Factory. Kauch. i rez. 20 no.10: 46-50 O '61. (MIRA 14:12)

1. Zavod "Kauchuk".
(Rubber industry--Equipment and supplies)
(Automatic control)

SIBIRTSEVA, V.Ye., inzh.; KUSTOVA, S.D., kand.khimicheskikh nauk; KOGENMAN, G.M., inzh.; MAKANOVITSKAYA, I.S., inzh.

Industrial method of preparing ambrial (bicyclohomofarnesal). Masl. - zhir. prom. 27 no.12:31-32 D '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv (for Sibirtseva, Kustova). 2. Moskovskaya kosmeticheskaya fabrika (for Kogenman, Makanovitskaya).

(Farnesal)

EYZEN, O.G.; KIVIRYAKHK, S.V.; KOGERMAN, A.P.; LAUS, T.N.; APPO, I.Kh.

Chemical composition of tar from dictyonemic shale. Khim.i tekh.topl. i masel 5 no.9:37-42 S '60. (MIRA 13:9)

1. Institut khimii AN ESSR.
(Estonia—Oil shale)

KUZ'MINSKIY, A.S., GOL'DFARB, Ya.L., FEDOROV, B.P., ZHEMCHENKO, A.I., KOGERMAN, A.P., GORUSHKINA, G.I., ANGERT, L.G.

Synthesis of some thiophene derivatives and study of their behavior as ingredients of rubber accelerators and antioxidants). Zhur.prikl.khim. 33 no.5:1182-1187 My '60. (MIRA 13:7)
(Thiophene) (Vulcanization)

KOGERMAN, A.P.

S/080/60/033/005/005/008

AUTHORS: Kuz'minskiy, A.S., Gol'dfarb, Ya.L., Fedorov, B.P., Zakharchenko, A.V., Kogerman, A.P., Goryushkina, G.I., Angert, L.G.

TITLE: The Synthesis of Some Thiophene Derivatives and the Study of Their Behavior as Rubber Ingredients (Accelerants and Antioxidants). Communication 2.

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol 33, No 5, pp 1182 - 1187

TEXT: Some azomethines of the thiophene series are accelerants of the vulcanization process [Ref 1], some of them being also antiseptics [Ref 2] which is important for the cable industry. The most suitable azomethines are those containing hydroxyl groups. Other substances of this type were synthesized, therefore, which differed only in the position of the hydroxyl groups. The following substances were synthesized: bis-[2-thenylidene]-hydrazine, bis-[3-methyl-2-thenylidene]-hydrazine, bis-[2-thenylidene]-p-phenylenediamine, 5'-methyl-2'-thenylidene-6-amino-2-mercaptobenzothiazole, 5-methyl-2-thenylidene-o-aminophenol and 2'-oxybenzylidene-2-thenylamine, as well as two new sulfides: [β-oxyethyl]-2-thenylsulfide and 2-thenyl-[o-oxyphenyl]-sulfide. The two sulfides mentioned and 2'-thenylidene-6-

Card 1/2

amino-2-mercaptobenzothiazole and 6-amino-2-mercaptobenzothiazole are accelerants, but their efficiency is less than that of mercaptobenzothiazole. It was evident that the hydroxyl group positively affects the accelerating action of the compounds, if it is located in the para-state of the benzene ring. The introduction of molecules of mercaptobenzothiazole of the amino-group into the benzene ring decreases the efficiency of the compound. A further complication of the molecule decreases the efficiency still more. The cause of these phenomena is not known at the present time. The principal role in the accelerating action of the compounds considered is played by the hydroxyl group.
There are 4 tables and 5 references: 2 Soviet, 2 English and 1 German.

SUBMITTED: August 20, 1959

Card 2/2

KOGERMAN, A.P.; FEDOROV, B.P.

Syntheses of some thienyl- and thenylamides of 2,3-hydroxynaphthoic and salicyclic acids. Zhur.ob.khim. 32 no.3:981-983 Mr '62. (MIRA 15:3)

(Naphthoic acid) (Salicylic acid)

KOGERMAN, E. P.

KOGERMAN, E. P. -- "Intraorganic Lymphatic and Blood Vessels of the Human Trachea in Connection with Its Construction." Min Health RSFSR. Leningrad Sanitary-Hygiene Medical Institute. Leningrad, 1955. (Dissertation for the Degree of Candidate in Medical Sciences.)

So; Knizhaya Letopis' No 3, 1956

USSR/Human and Animal Morphology (Normal and Pathological) Lymph System S-4

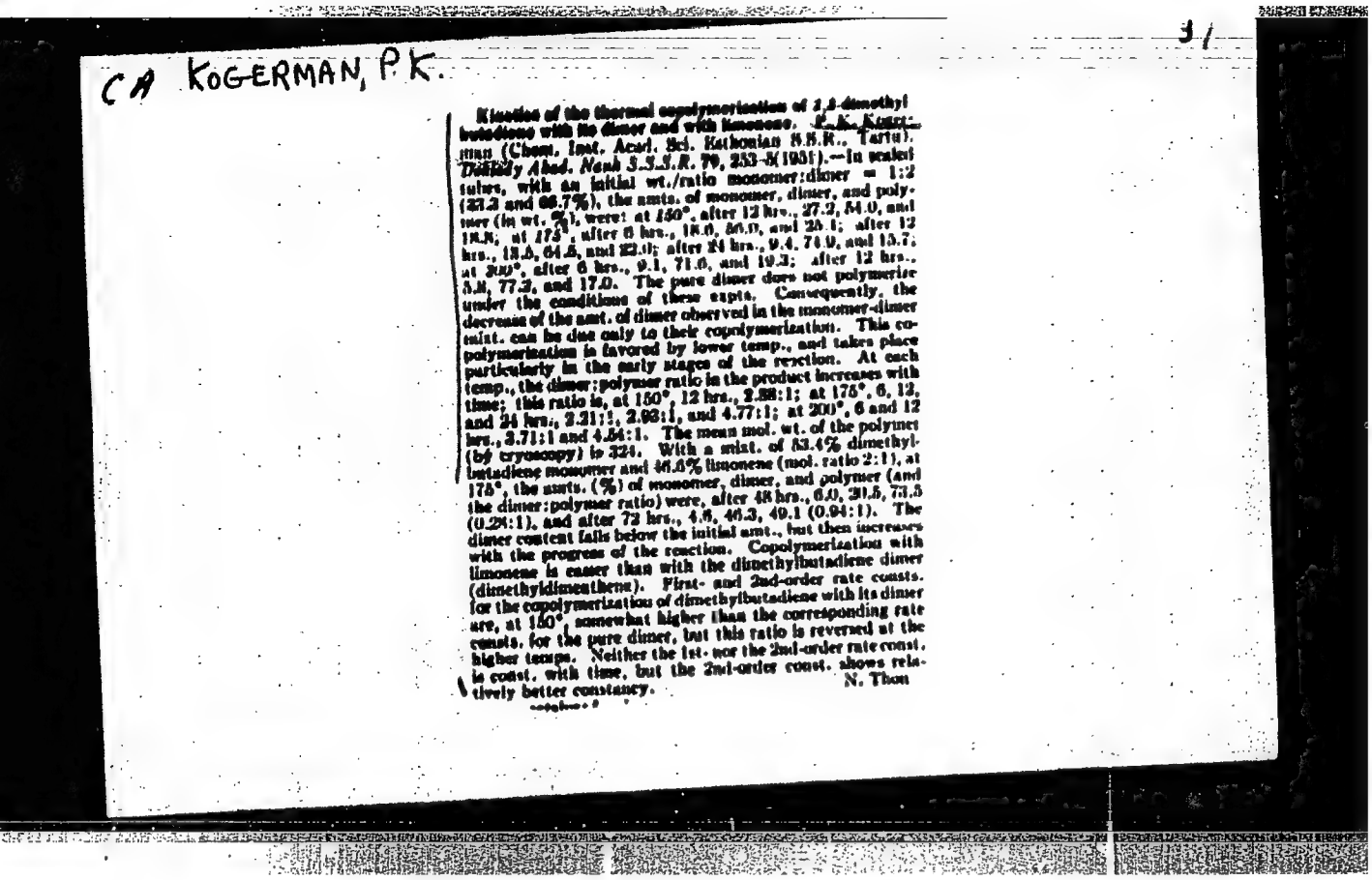
Abs Jour : Ref Zhur - Biol., No 12, 1958, No 55130

Author : Kogerman E.P.
Inst : Leningrad Institute of Medicine and Sanitary Hygiene.
Title : Lymphatic Vessels of the Human Trachea Interior.

Orig Pub : Tr. Leningr. san.-gigien. med. in-ta, 1957, 35, 83-96

Abstract : Lymphatic capillary networks (LC) are found on the surface as well as within deeper layers of the tracheal mucosa of human adults. They flow into the submucous network of the efferent lymphatic vessels, from where the lymph gland proceeds in the direction of the tracheal adventitia. The surface thickness of the LC network amounts to 0.01-0.03 mm. In the anterior section, its loops have a transversal or slanted-transversal orientation; on the edges of the cartilaginous wall they are slanted-longitudinal or slanted-transversal, on the membranous wall they are longitudinal. The blood-carrying capillary network is situated above the upper

Card : 1/2



CA KOGERMAN, P. K.

31

Kinetics of the thermal copolymerization of 2,3-dimethylbutadiene with its dimer and with limonene. P. K. Kogerman (Chem. Inst. Acad. Sci. Estonian S.S.R., Tartu). *Doklady Akad. Nauk S.S.S.R.* 79, 253-6(1951).—In sealed tubes, with an initial wt./ratio monomer:dimer = 1:2 (27.3 and 66.7%), the amts. of monomer, dimer, and polymer (in wt. %), were: at 150°, after 12 hrs., 27.2, 54.0, and 18.8; at 175°, after 6 hrs., 18.0, 56.0, and 26.1; after 12 hrs., 13.5, 64.5, and 22.0; after 24 hrs., 9.4, 71.0, and 19.7; at 200°, after 6 hrs., 9.1, 71.0, and 19.3; after 12 hrs., 5.8, 77.3, and 17.0. The pure dimer does not polymerize under the conditions of these expts. Consequently, the decrease of the amt. of dimer observed in the monomer-dimer mixt. can be due only to their copolymerization. This copolymerization is favored by lower temp., and takes place particularly in the early stages of the reaction. At each temp., the dimer:polymer ratio in the product increases with time; this ratio is, at 150°, 12 hrs., 2.88:1; at 175°, 6, 12, and 24 hrs., 2.21:1, 2.93:1, and 4.77:1; at 200°, 6 and 12 hrs., 3.71:1 and 4.54:1. The mean mol. wt. of the polymer (by cryoscopy) is 324. With a mixt. of 53.4% dimethylbutadiene monomer and 46.6% limonene (mol. ratio 2:1), at 175°, the amts. (%) of monomer, dimer, and polymer (and the dimer:polymer ratio) were, after 48 hrs., 6.0, 30.5, 73.5 (0.28:1), and after 72 hrs., 4.6, 46.3, 49.1 (0.94:1). The dimer content falls below the initial amt., but then increases with the progress of the reaction. Copolymerization with limonene is easier than with the dimethylbutadiene dimer (dimethyldimenthene). First- and 2nd-order rate consts. for the copolymerization of dimethylbutadiene with its dimer are, at 150°, somewhat higher than the corresponding rate consts. for the pure dimer, but this ratio is reversed at the higher temps. Neither the 1st- nor the 2nd-order rate const. is const. with time, but the 2nd-order const. shows relatively better constancy.

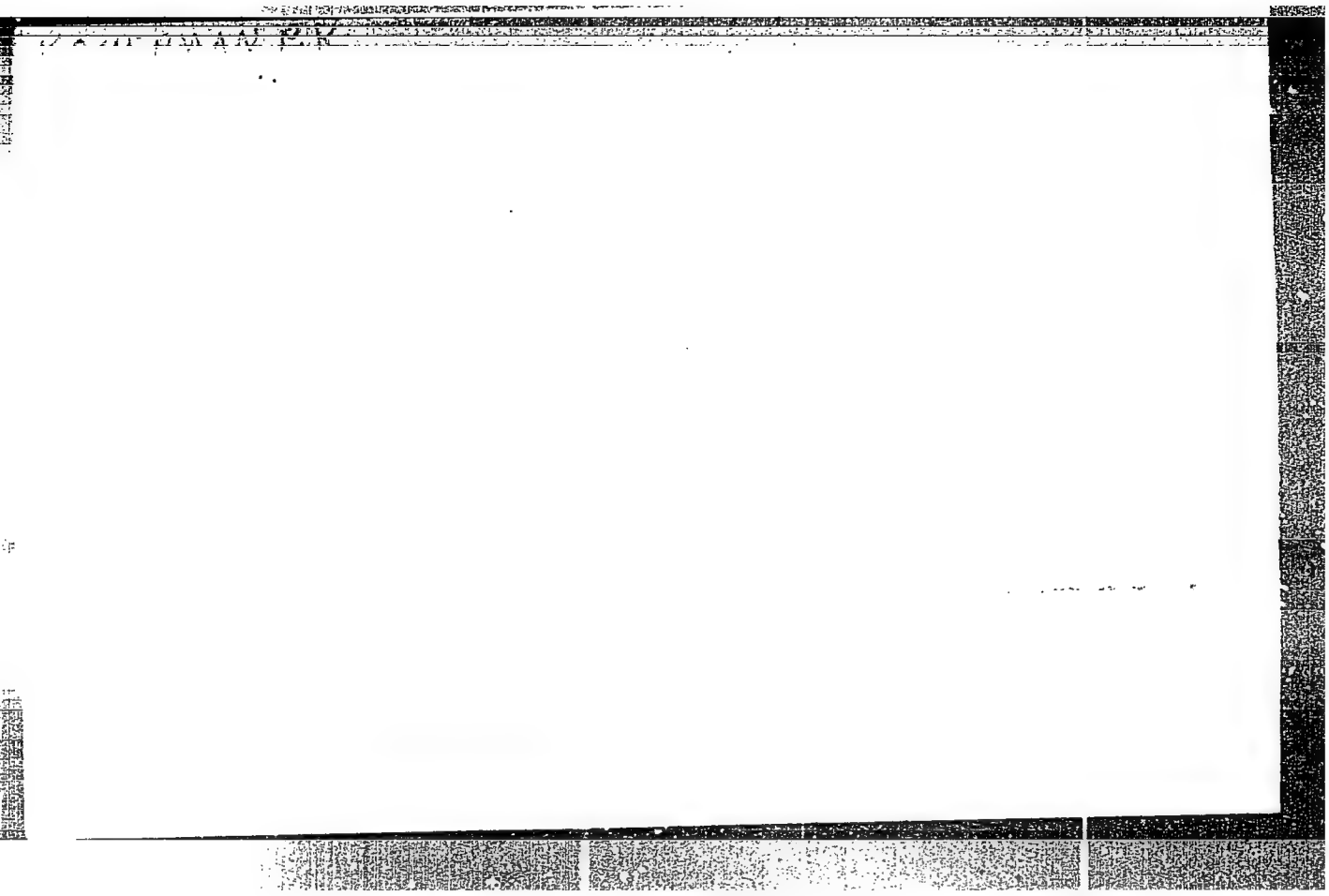
N. Thon

ROOKS, G.Kh.; KOGERMAN, E.P.

From the life and work of A.S.Rauber. Arkh. anat. gist. i embr. 42 no.1:110-116 Ja '62. (MIRA 15:4)

1. Kafedra normal'noy anatomii (zav. - dotsent G.Kh. Rooks) meditsinskogo fakul'teta Tartuskogo gosudarstvennogo universiteta. Adres avtorov: Estonsk. SSR, g. Tartu, Gosudarstvennyy universitet. Kafedra normal'noy anatomii.

(RAUBER, AUGUST, 1841-1917)



Кагерманова Р. В.

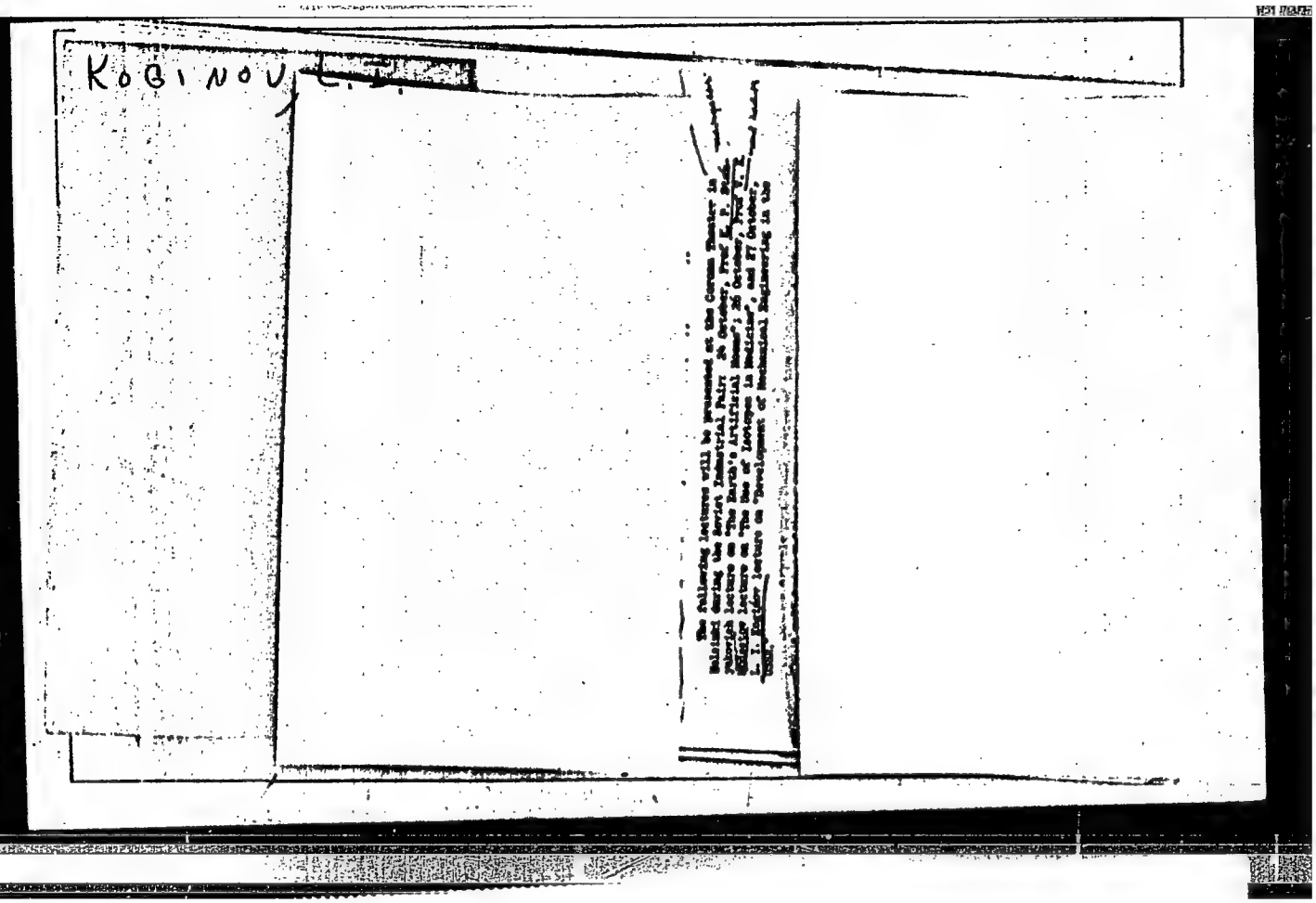
KOGERMANOVA, R.V.

"Surgery on the mucous membrane and the eyelids" by N.M.Pavlov. Reviewed by R.V.Kagermanova. Vest.oft. 69 no.4:45 Jl-Ag '56. (MIRA 10:9)
(EYE--SURGERY)
(EYELIDS--SURGERY) (PAVLOV, N.M.)

KOGI, Miroslav; NETUSIL, Miroslav, inz.; NOVAK, Vladimir, inz.

An analogue frequency analyzer. Slaboproudy obzor 23 no.10:568-572 O '62.

1. Laborator grafickych vysetrovacich metod, Ceskoslovenska akademie ved, Praha.



Koginova, A.M.

USSR/ Analytical Chemistry - Analysis of Organic Substances G-3

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12142

Author : Maksimycheva Z.T., Talipov Sh.T., Koginova A.M.
Title : Volumetric Determination of Fluorine in Tetrafluoroborates

Orig Pub : Zavod. laboratoriya, 1956, 22, No 7, 791-794

Abstract : 100 ml of a solution containing not more than 33 mg HBF_4, are placed in a round-bottom flask, into which were first charged from 1 to 9 ml of 2% solution of HCl (depending on the anticipated amount of HBF_4). The flask is connected to a reflux condenser and its content is heated to a boil, in a sand bath, from 30 minutes to 2 hours. On completion of hydrolysis the condenser is flushed with a small amount of water, the solution is neutralized with 2N NaOH in the presence of sodium alizarin sulfonate, to an alkaline reaction, is then acidified with 2% solution of HCl until the pink coloration of the liquid is discharged, there is added 1 ml of a buffer solution consisting of

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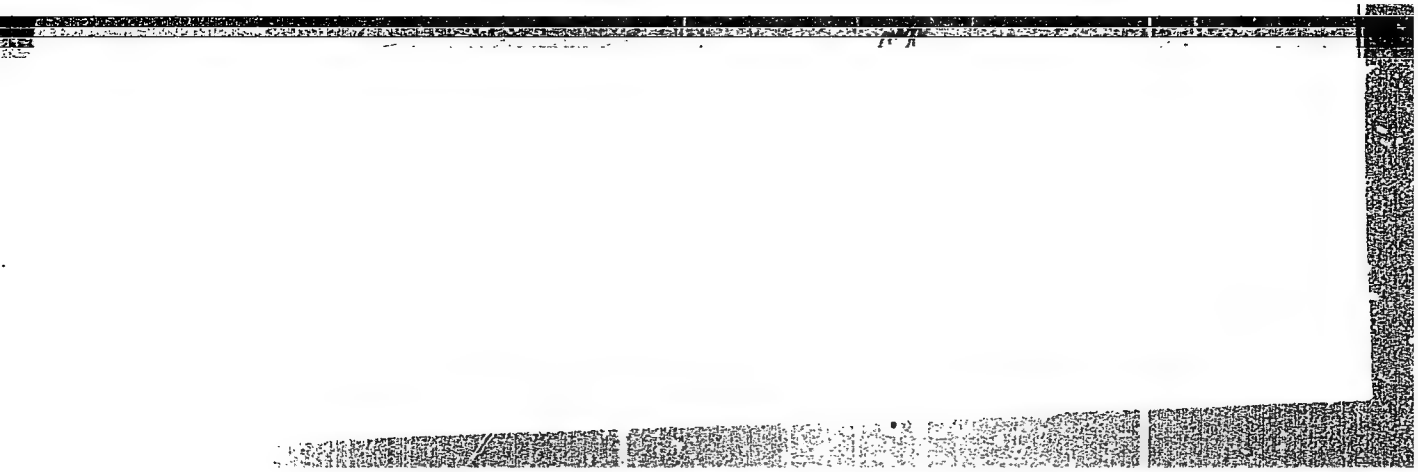


APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723620011-9"

KOGLER, F.

"A monthly-station bulletin; an aid in the management of machine-tractor stations."

p. 516 (Mechanisace Zemedelstvi) Vol. 7, no. 22, Nov. 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

BRUSLINSKIY, B.A., inzh.; KOGAN, Ye.Ye., inzh.; KOTOV, V.I., inzh.; KROTMAN, I.S., inzh.; LIPATOV, V.T., inzh.; ROSHCHEKTAYEV, A.P., inzh.

Registering ultrasonic flaw detector for turbogenerator rotor shafts. Elektrotekhnika 36 no.2:24-26 F '65. (MIRA 18:4)

RYABCHIKOV, D.I., prof., otv. red.; ALIMARIN, I.P., red.; ZAOZERSKIY, I.N., doktor khim. nauk, red.; KOGLYAROV, E.V., kand. khim. nauk, red.; KUZNETSOV, V.I., doktor khim. nauk, red.; SENYAVIN, M.M., kand. khim. nauk, red.; SKLYARENKO, Yu.S., kand. khim. nauk, red.; TRIFONOV, D.N., red. izd-va.; LEVI, T.G., red. izd-va, red.; MARKOVICH, S.G., tekhn. red.

[Rare earth elements; extraction, analysis, uses] Redkozemel'nye elementy; poluchenie, analiz, primenenie. Moskva, 1958. 331 p. (MIRA 11:12)

1. Akademiya nauk SSSR. Institut geokhimii i analiticheskoy khimii.
2. Chlen-korrespondent AN SSSR (for Alimarin).
(Rare earth metals)

LOPATIN, N.A., inzh.; KOGNOVITSKAYA, O.S., inzh.; BULGAKOV, M.I., inzh.; DEVLIKAMOV, A.G., inzh.; PLATONOV, V.A., inzh., retsenzent; ROZINOYER, S.T., inzh., nauchnyy red.; NEPOROZHNYAYA, G.P., red.; SOKOL'SKIY, I.F., tekhn.red.

[Hydraulic mechanization in the construction of the Volga Hydroelectric Power Station (22d Congress of the CPSU)] Gidromekhanizatsiia na stroitel'stve Volzhskoi GES im. XXII s"ezda KPSS. Moskva, Gidroproekt, 1962. 172 p. (MIRA 16:6)

(Volga Hydroelectric Power Station (22d Congress of the CPSU))
(Hydraulic machinery)

KOGNOVITSKIY, I. I.

USSR/Mines
Mining Methods
Drainage

"Drainage of the Section of the Bytkovsk Pit by Means of Larger Ground Shafts is Inefficient," I. I. Kognovitskiy, Engr-Hydrologist; I. I. Krivorog, Engr-Hydrologist; I. I. Kognovitskiy, 1 p

"Ugol'" No 5 (266)

Article was written in answer to I. G. Kivel's preliminary system for Draining the Sub-Coal Water Bearing Strata of the Bytkovsk Pit by Means of Open Drains Which Lead to Large Wells for Storage and Collection of Water. Krivorog

USSR/Mines (Cont'd)

Presents his objections and gives examples. In his article, Kognovitskiy gives examples of usefulness of Kivel's suggestion at Ukrainian coal mines.

DIDOVSKIY, D.Z.; TRAKHMAN, A.I.; RYBAKOV, I.P.; KOGNOVITSKIY, I.I., redaktor; MADEYNSKAYA, A.A., tekhnicheskiy redaktor

[Work practice of the Karaganda opencut coal mines] Opyt raboty Karagandinskikh ugol'nykh kar'erov. Moskva, Ugletekhizdat, 1954. 66 p. (MLRA 8:7)

(Karaganda--Coal mines and mining)

KOGODOVSIY, A.A.

28920. KOGODOVSIY, A.A. Sravnenie Strogikh i Uproshennyu Sposob Uravniuaniya. Zapiski Po Gidrografii, 1949, No. 1, s. 3-22.

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

MKHITARYAN, A.V.; KOGODOVSKAYA, A.A.; TERZYAN, A.G.; TATEVOSYAN, G.T.

Derivatives of indole. Report No.9: α,β -Dimethyltryptamine and its 5-methoxy derivatives. Izv.AN Arm. SSR. Khim.nauki 15 no.4:379-384 '62. (MIRA 15:11)

1. Institut tonkoy organicheskoy khimii AN Armyanskoy SSR.

(Indole)

TERZYAN, A.G; KOGODOVSKAYA, A.A.; TATEVOSYAN, G.T.

Derivatives of indole. Part 13: 10-Carbomethoxy rutecarpine.
Izv. AN Arm.SSR.Khim.nauki 17 no. 2:230-234 '64.
(MIRA 17:6)

1. Institut tonkoy organicheskoy khimii AN Armyanskoy SSR.

YARTSEVA, A.M.; KOGOI, T.F.

Recurrences and exacerbations in Botkin's disease. Klin. med. 38 no. 4:30-39 Ap '60. (MIRA 14:1)

(HEPATITIS, INFECTIOUS)

KOGOJ, F.

"Groups in dermatology", p. 79 (Yugoslavia. Vol. 1, 1951, Zagreb)

SO: Monthly List of East European Accessions, Vol. 2, No 9, Library of Congress, September 1953, Uncl.

KOGOJ, Franjo, Akademik

Generalized candidiasis similar to vegetative dermatitis herpetiformis. Rad Jugosl. akad. znan., odjel med. 5:5-24 (Rad 307) 1955.

1. Iz Dermatovenerološke klinike Medicinskog fakulteta Sveučilišta u Zagrebu, Predstojnik: prof. dr. Fr. Kogoj.
(MONILIASIS, case report
(Ser))

KOGOJ, Franjo, Prof., dr.

Does Nelson-Mayer reaction (TPI) have any significance in prognosis and treatment of syphilis? Med. glasn. 11 no.1:10-12 Jan 57.

1. Dermatovenerološka klinika Medicinskog fakulteta u Zagrebu (Predstojnik: akademik, prof. dr. Fr. Kogoj).
(SYPHILIS, diag.
Treponema immobilization test, Nelson-Mayer technic, value in progn. & ther. (Ser))

KOGOJ,F.

Apropos infantile eczema. Acta med. iugosl. 13 no.3:268-274 '59.

1. Clinique Dermatovenerologique, Faculte de Medecine, de Zagreb.
(ECZEMA in inf.& child)

KOGOJ, F.

On the problem of so-called collagenoses and some senile skin changes. Przegl. derm. 48 no.8/10:11-17 '61.
(SKIN pathol) (AGING) (COLLAGEN DISEASES pathol)

KOGOJ, Fran; BRNOBIC, Albin; FETTICH, Janez

Diagnosis of allergic diseases. Rad. med. fak. Zagreb. 10 no.1: 1-24 '62.

(ALLERGY)

KOGOJ-BAKIC, Verena; KOPAJTIC, Bosko

Pronto — a new method for the rapid determination of erythrocyte sedimentation. Srpski arh. celok. lek. 88 no.6:701-704 Je '60.

1. Ginekolosko-opstetricki odjel Opce bolnice "Susak" u Rijeci. Sef: doc. prim. dr Davor Perovic.

(BLOOD SEDIMENTATION)

KOGOJ-BAKIC, V.

On managing the 3d stage of labor. Lijecn. vjesn. 85 no.3: 318-320 '63.

(LABOR)

S

KOGOJ-BAKIC, V., dr.; KOPAJTIC, B., dr.

Significance of erythrocyte sedimentation in pregnancy. Med. glasn. 13 no.5:329-331 My '59.

1. Ginekolosko-opstetricki i Interni odjel Opce bolnice Susak u Rijeci.
(PREGNANCY blood)
(BLOOD SEDIMENTATION in pregn.)

YUGOSLAVIA

Dr Verena KOGOJ-BAKIC [Affiliation not given]

"Handling of the Third Stage of Labor."

Zagreb, Lijecnicki Vjesnik, Vol 85, No 3, 1963; pp 318-320.

Abstract : A review mainly of various problems involved in minimizing the blood loss in parturition, discussing various classical surgical and medical techniques and diagnostic bases for indications therefor. Two Yugoslav (including 1 by author 'in press') and 22 Western ref's.

1/1

RANNEV, G.G.; SALIN, A.A., kand.tekhn.nauk; KOGOL', I.M.; LUKOVICH, L.G.

Automatic sampler and dispenser for saturated aqueous solutions.
Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform.
no.9:33-36 '63. (MIRA 16:10)

KOGON, A.I., dotsent

Differential diagnosis of rectal fistula located in different spots. Khirurgiia no.6:64-65 Je '55. (MLRA 8:10)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav.-prof. M.A. Kimbarovskiy) Dnepropetrovskogo meditsinskogo instituta. (dir.-prof. D.P.Chukhriyenko)

(RECTUM, fistula
differ.diag.)
(FISTULA,
rectum, differ.diag.)

KOGON, A. I.

USSR / Human and Animal Morphology (Normal and Pathological). Digestive System. 8

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 12282

Author : Kogon, A.I.
Inst : -
Title : Anal Glands (Preliminary Report).

Orig Pub : V sb.: Nekotoryye vopr. morfol., fiziol. i patol. organov pishchevareniya, M., Medgiz, 1956, 30-52

Abstract : In the rectum, 1-40 glands (G) are discovered; however in actuality there are more of them, since not all G are fully considered. Starting at 30 years of age, the number of G decreases. G are located on the entire circumference of the anal canal; especially many of them are in the left upper part of the circumference (29.5%

Card 1/2

KOGON, A.I.

Pathomorphology of the anal glands. Arkh. pat. 23 no.3:56-64 '61.
(MIRA 14:3)

(ANUS—DISEASES)

KOGON, A.I.

Lacunae of the mucous membrane of the anal canal. Arkh. anat., gist. i embr. 8:84-89 '63. (MIRA 17:12)

1. Kafedra normal'noy anatomii (zav. prof. R.D.Sinel'nikov) Khar'kovskogo meditsinskogo instituta i klinika fakul'tetskoy khirurgii (zav. - prof. M.A.Kimbarovskiy) Dnepropetrovskogo meditsinskogo instituta.

KOGON, A.I.; SHKOLA, I.Ye.

Clinical and X-ray diagnosis of destructive appendicitis. Vest. rent. i rad. 39 no.6:55-57 N-D '64. (MIRA 18:6)

1. Klinika fakul'tetskoy khirurgii sanitarno-gigiyenicheskogo i pediatricheskogo fakul'tetov (zav. - prof. A.I.Kogon) Dnepropetrovskogo meditsinskogo instituta i rentgenovskoye otdeleniye (zav. I.Ye.Shkola) na baze 9-y Gorodskoy bol'nitsy (glavnyy vrach V.V.Piven').

KOGON, G.Kh. (Dnepropetrovsk)

Classification of osteoarticular diseases in psoriasis. Klin. med. 38 no.11:93-100 N '60. (MIRA 13:12)
(PSORIASIS) (BONES—DISEASES) (JOINTS—DISEASES)

KOGON, A.I. (Dnepropetrovsk, ul. Shmidta, 14, kv. 2)

Anatomical features and surgical significance of the rectal sinuses. Arkh. anat. gist. embr. 39 no. 10:43-49 O '60. (MIRA 14:2)

1. Kafedra normal'noy anatomii (zav. - prof. R.D. Sinel'nikov) Khar'kovskogo meditsinskogo instituta i klinika fakul'tetskoy khirurgii (zav. - prof. M.A. Kimbarovskiy) Dnepropetrovskogo meditsinskogo instituta.
(RECTUM)

NESTERENKO, O.B., kandidat meditsinskikh nauk; KOGON, G.Kh.; LESHCHENKO, N.V.

Successful treatment of acute arthropathic psoriasis. Vest.ven. i derm. no.3:52 My-Je '56. (MLRA 9:9)

1. Iz Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy imeni I.I.Mechnikova.
(PSORIASIS)

KOGON, G.Kh.; BRODSKAYA, F.M.; UMANTSEVA, Z.S.

Deep blastomycosis. Vest.ven. i derm. 30 no.2:46 Mr-Ap '56.
(MLRA 9:7)

1. Iz Dnepropetrovskoy oblastnoy kozhnicheskoy bol'nitsy.
(BLASTOMYCOSIS)

KOGAN, G. Kh.

NESTERENKO, G.B., kandidat meditsinskikh nauk; KOGAN, G.Kh.; LESHCHENKO, N.V.

Multiple syphilitic lesions of the skull bones. Vrach.delo no.2: 193 F '57. (MLRA 10:6)

1. Dnepropetrovskaya oblastnaya klinicheskaya bol'nitsa.
(SYPHILIS) (SKULL--DISEASES)

KOGAN, G. Kh.

V

Country : USSR
Category: Pharmacology. Toxicology. Tranquilizers.

Abs Jour: RZhBiol., No 6, 1959, No 27711

Author : Kogon, G. Kh.
Inst : Dnepropetrovsk Regional Clinical Hospital imeni I.I. Mechnikov
Title : Dermatitises from Aminazine.

Orig Pub: Sb. nauchn rabot Dnepropetr. obl. klinich, bol'nitsa im. I.I. Mechnikova, 1958, No 2, 373-374

Abstract: No abstract.

Card : 1/1

Kogon, G. Kh., ordinator

Candidomycosis and its treatment. Med.sestra 17 no.6:27-29 Je '58 (MIRA 11:6)

1. Iz Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy imeni I.I. Mechnikova.
(MONILIASIS)

KOGOM, G.Kh., ordinator, LISHCHENKO, M.V.

Arthropathic psoriasis with concurrent nearthrosis. Vest.derm. i ven. 32 no.3:79-81 My-Je '58 (MIRA 11:7)

1. Iz Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy imeni Mechnikova.
(PSORIASIS)
(JOINTS--DISEASES)

CH

KOGON, G.Kh., LISHENKO, N.V.

Observations of arthropathic psoriasis. Vest.derm. i ven. 32 no4:77 Jl-Ag '58 (MIRA 11:10)

1. Iz Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy imeni I.M. Mechnikova.
(PSORIASIS)

KOGON, G. Kh., LISHCHENKO, N.V.

Latent arthropathies in psoriasis. Vest.derm. i ven. 32 no.5: 71 S-O '58 (MIRA 11:11)

1. Iz kozhno-venerologicheskogo otdeleniya Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy imeni. Mechnikova.
(PSORIASIS)
(ARTHRITIS)

KOGON, G.Kh., ordinator (Dnepropetrovsk)

Arthropathic psoriasis. Fel'd. i akush. 24 no.3:13-14 Mr '59. (MIRA 12:4)

(PSORIASIS) (ARTHRITIS)

KOGON, G. Kh. Cand Med Sci -- "Osteoarticular changes in psoriasis."
Odessa, 1960 (Odessa State Med Inst im N. I. Pirogov). (KL, 4-61, 209)

KOGON, G.Kh.

Pathomorphological changes of the osseoarticular apparatus in psoriasis.
Vest. derm. i ven. 34 no. 5:59-61 '60. (MIRA 14:1)
(PSORIASIS) (BONES—DISEASES) (JOINTS—DISEASES)

KOGON, G.Kh.; ZEL'DIN, G.S.

Folic acid in the treatment of psoriasis. Vest. derm. i ven. 34 no.7:58-60 '60. (MIRA 13:12)
(PSORIASIS) (FOLIC ACID)

KOGON, G.Kh.; PROKOPOV, N.I.; ZEL'DIN, G.S.; TYTAR', G.M.

Efficacy of tonsillectomy in patients with chronic tonsillitis and psoriasis. Vest.derm.i ven. 34 no.8:52-55 '60. (MIRA 13:11)

1. Iz klinicheskogo otdeleniya bolezney ukha, nosa i gorla (zav. G.M. Tytar') i kozhno-venerologicheskogo dispansera (zav. G.Kh. Kogon) Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy imeni I.I. Mechnikova (glavnyy vrach F.A. Lyubin, nauchnyy rukovoditel' - zasluzhennyy deyatel' nauk USSR prof. L.A. Lukovskiy).

(PSORIASIS) (TONSILS--DISEASES)

KOGON, G.Kh.

Therapeutic problems in osteoarticular lesions in psoriasis.
Vest.derm.i ven. 35 no.4:56-59 Ap '61. (MIRA 14:5)

1. Iz Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy imeni I.I. Mechnikova (nauchnyy rukovoditel' - zasluzhennyy deyatel' nauki RSFSR prof. G.A. Reinberg) i kafedry kozhno-venericheskikh bolezney (zav. - prof.A.N. Fedorovskiy) Dnepropetrovskogo meditsinskogo instituta.
(PSORIASIS) (ARTHRITIS, DEFORMANS)

KOGON, G.Kh.

Psoriasis and ankylosing spondylitis. Sov. med. 25 no.10:131-134 O '61. (MIRA 15:1)

1. Iz Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy imeni I.I. Mechnikova (nauchnyy rukovoditel' - zasluzhennyy deyatel' nauk RSFSR prof. S.A.Reynberg) i kafedry kozhno-venericheskikh bolezney (zav. - prof. A.N.Fedorovskiy) Dnepropetrovskogo meditsinskogo instituta.

(VERTEBRAE--DISEASES) (PSORIASIS)

KOGON, G.Kh., kand.med.nauk (Dnepropetrovsk)

X-ray picture of changes in the osteoarticular apparatus in psoriasis. Klin.med. no.1:116-123 '62. (MIRA 15:1)

1. Iz Dnepropetrovskoy oblastnoy klinicheskoy bol'nitsy imeni I.I. Mechnikova (glavnyy vrach F.A. Lyubin, nauchnyy rukovoditel' - zasluzhennyy deyatel' nauki RSFSR prof. S.A. Reynberg) i kafedry kozhno-venericheskikh bolezney (zav. - prof. A.N. Fedorovskiy) Dnepropetrovskogo meditsinskogo instituta (dir. - doktor med.nauk N.Ya. Khoromanenko).
(PSORIASIS) (BONES--RADIOGRAPHY) (JOINTS--RADIOGRAPHY)

KOGON, G.Kh. (Dnepropetrovsk)

Latent osteoarthropathies in psoriasis patients. Vrach.delo no.12:129-130 D '62. (MIRA 15:12)

1. Dnepropetrovskaya oblastnaya klinicheskaya bol'nitsa imeni I.I.Mechnikova (nauchnyy rukovoditel' - zasluzhennyy deyatel' nauki RSFSR, prof. S.A.Reynberg) i kafedra kozhno-venericheskikh bolezney (zav. - prof. A.N.Fedorovskiy) Dnepropetrovskogo meditsinskogo instituta.
(PSORIASIS) (BONES--DISEASES) (JOINTS--DISEASES)

KOGON, G.Kh.

Erythroderma as a result of using butadione. Vrach.delo no.3:152 Mr '63. (MIRA 16:4)

1. Koshnyy dispanser (zav. - G.Kh.Kogon) 24-ya Dnepropetrovskaya gorodskaya bol'nitsa.
(SKIN--DISEASES) (BUTADIONE)

KOGON, G.Kh., kand.med.nauk (Dnepropetrovsk)

Etiology and pathogenesis of arthropathic psoriasis; review of literature. Vest. derm. i ven. 37 no. 10:35-38 O '63. (MIRA 17:9)

[redacted], K.N., spetsred.; KOGOM, L.M., otvetstvennyy red.; SABIROV, A., tekhn. red.

[Time norms for servicing and repairing automobiles] Normy vremeni na tekhnicheskoe obsluzhivanie i remont avtomobilei. Moskva, Ugletekhizdat. No.3 [Repairing, remodeling, and making parts and equipment] Remont, restavratsiia i izgotovlenie avtomobil'nykh detalei i izdelii. 1958. 123 p. (MIRA 11:10)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

(Automobiles--Maintenance and repair)

KOGON, M.G.; SVIDLER, K.N.; PARYLIS, M.E.

Control recorder of the length of the rubberized fabric strip. Kauch. i rez. 23 no.2:49-51 F '64. (MIRA 17:3)

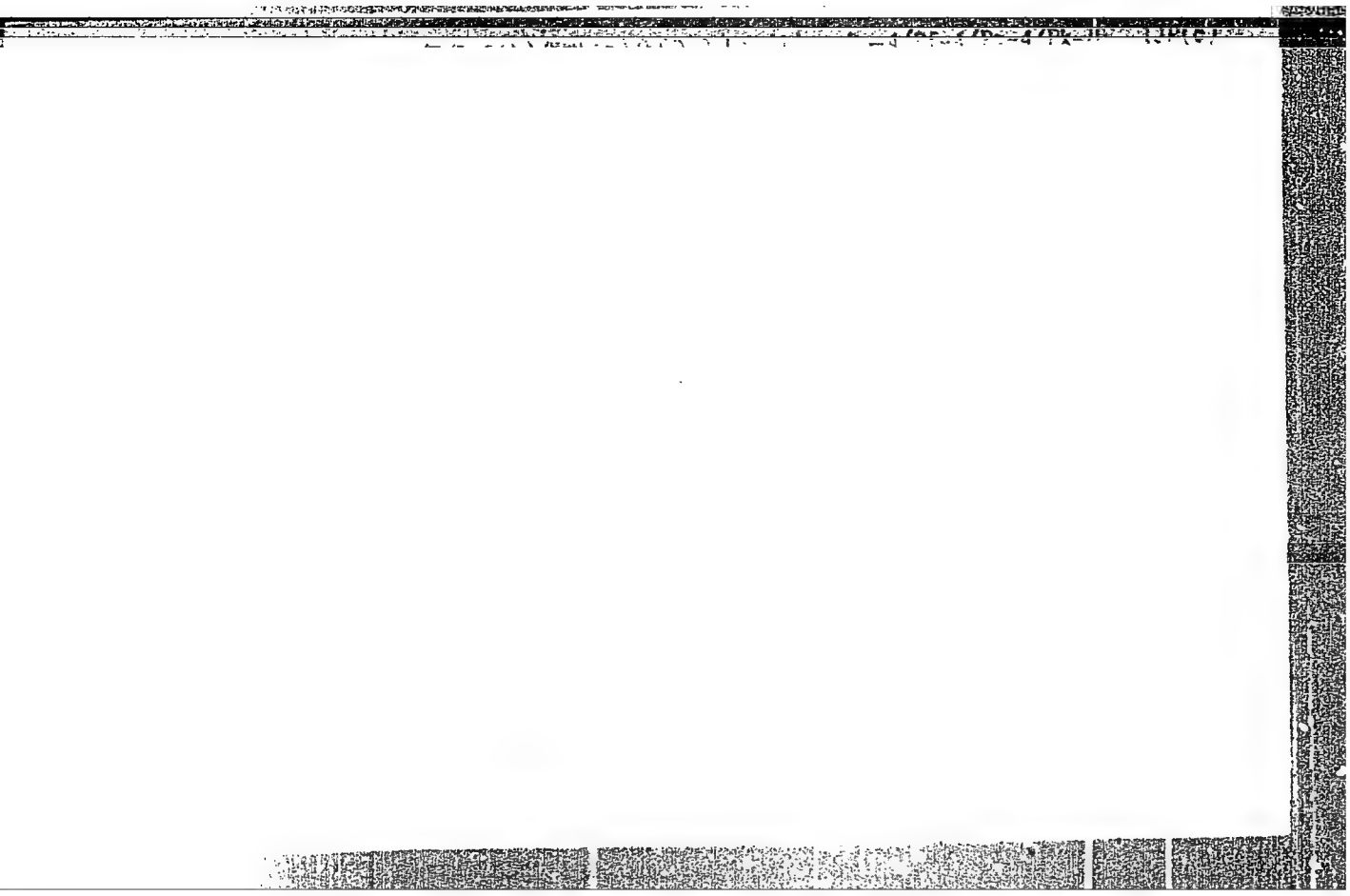
1. Promenergoavtomatika, g.Sverdlovsk.

KOGON, M.G., inzh.; SVIDLER, K.N., inzh.

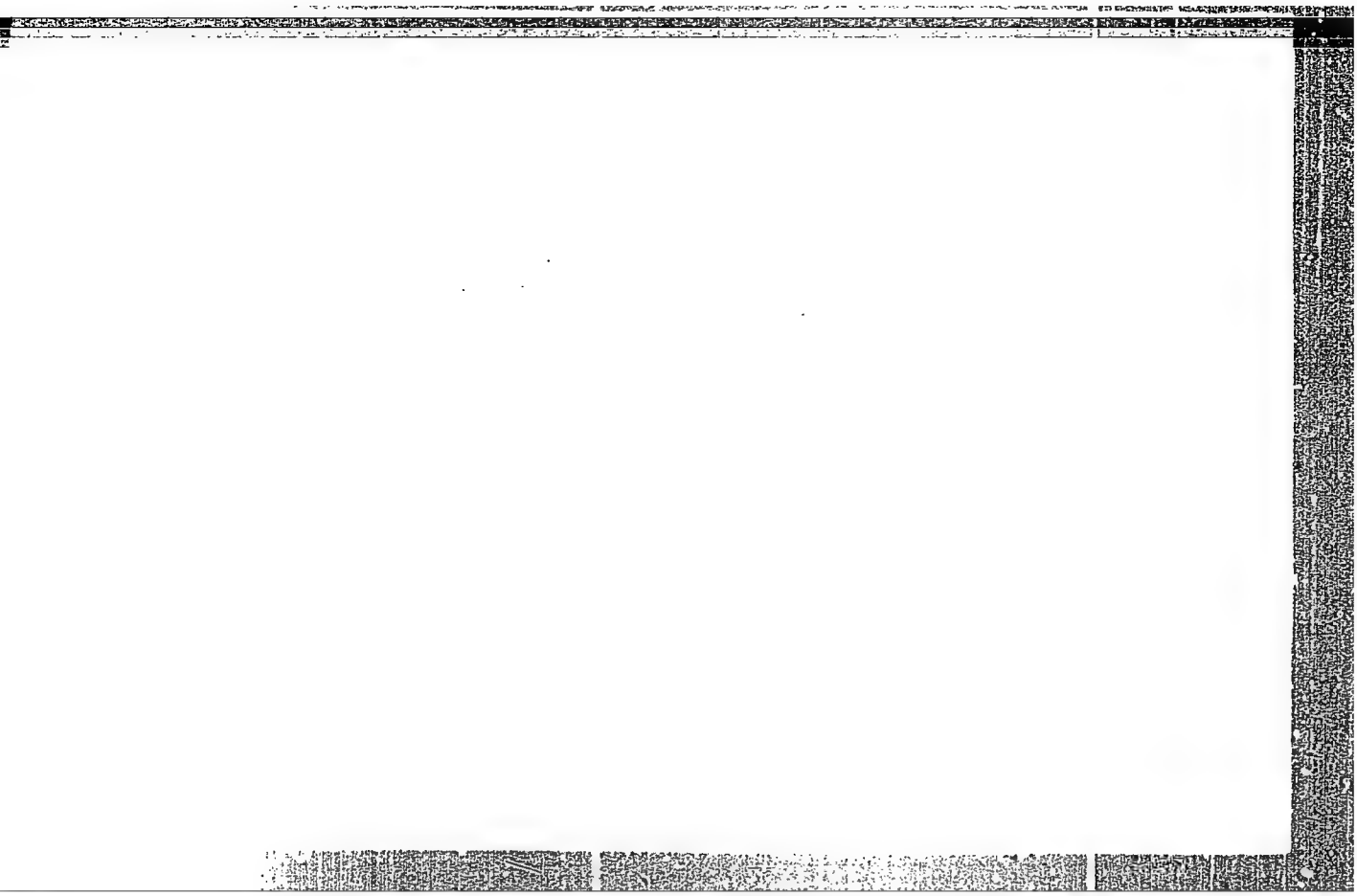
Control computer for conveyers with automatic addressing of freight. Mekh.i avtom.proizv. 16 no.4:53-56 Ap '62. (MIRA 15:4)
(Conveying machinery) (Electronic digital computers)

[redacted], M.G., inzh.; PARULIS, M.E.; SVIDLER, K.N., inzh.

Electronic digital computer for sorting sheets. Mekh. i avtom. proizv. 18 no.1:41-42 Ja '64. (MIRA 17:8)



APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723620011-9"



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L 39486-66 EWT(d)/EEC(k)-2 GD/GS

ACC NR: AT6002987 SOURCE CODE: UR/0000/65/000/000/0196/0200

AUTHOR: Kogon, M. G.; Parylis, M. E.; Svidler, K. N.

ORG: none

TITLE: Magnetic-element digital measuring instruments

SOURCE: Vsesoyuznoye soveshchaniye po magnitnym elementam avtomatiki i vychislitel'noy tekhniki. 9th, Yerevan, 1963. Magnitnyye tsifrovyye elementy (Magnetic digital elements): doklady soveshchaniya. Moscow, Izd-vo Nauka, 1965, 196-200

TOPIC TAGS: digital measuring instrument, magnetic element, industrial automatic control

ABSTRACT: Two applications of ferrite-diode logical systems to industrial automatic controls are described. A control counter intended for regulating the process of vulcanization of rubberized fabric consists of a fabric-strap-travel sensor, a photo transducer, a signal shaper, a switch, a travel counter, a programing unit, amplifiers, etc. This data of an experimental hookup is reported: maximum travel,

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L 39486-66

ACC NR: AT6002987

5

12 m; error of travel measurement, ± 5 cm; maximum total length, 1000 m; error of total-length measurement, ± 10 cm; maximum frequency of counting pulses, 200 cps; the overall error is claimed to be 0.005%. A digital gauge for measuring diameters intended for heavy-machine building application operates on the roller principle and consists of a roller, a transducer, a computing device, a pulse generator, a storage-and-correction unit, and an rpm sensor. "Laboratory tests" of the gauge are mentioned. "Besides the authors, Yu. M. Pavlov, V. A. Bragin, M. V. Busygina, I. V. Zhukova, and D. A. Korol'kov took part in the work." Orig. art. has: 5 figures and 1 formula.

SUB CODE: 09 / SUBM DATE: 23Apr65

Card 2/2 MLP

KOGON, S. S.

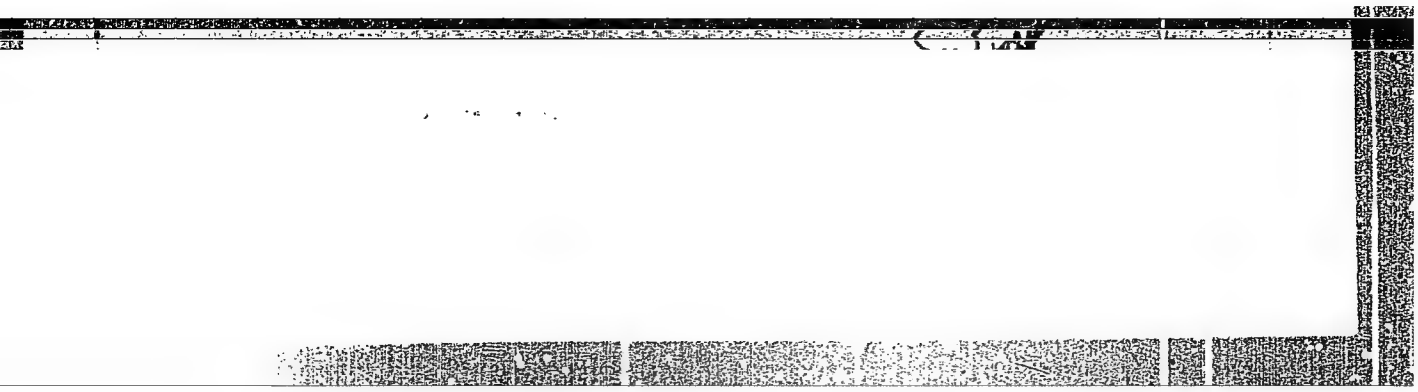
KOGON, S. S.: "Underground Paleozoic epochs of the central portions of the Russian platform in connection with the prognosis of oil- and gas-bearing strata." Acad Sci USSR. Inst of Petroleum. Min Petroleum Industry USSR. Union Geological Prospecting office. Moscow, 1956. (Disseration for the Degree of Candidate in Chemical Sciences).

SO: Knizhaya Letopis', No 23, 1956

KOMKOV, N.S.; KOGON, V.R.

Determining the cross section of ventilation equipment channels.
Vop.bezop.v ugol'.shakh. 4:41-45 '64.
(MIRA 18:1)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723620011-9"



APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723620011-9"

KOGONIYA, P.G.

Structure of a set of Markov's numbers. Trudy Tbil.mat.inst. 19:121-133 '53. (MLRA 7:8)
(Aggregates)

Kogoniya, P. G.

Call Nr: AF 1108825

Transactions of the Third All-Union Mathematical Congress., Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts, Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.

Vinogradov, A. I. (Leningrad). New Additive Problems with primes. 4

Dem'yanov, B. V., (Moscow). On Hypothesis Concerning the Expression of Zero by Forms with P - adic coefficients. 4-5

There are 2 references, both USSR.

Kogoniya, P. G. (Tbilisi). On the Set of Condensation Points of Markov's Number Set. 5

There are 2 references, 1 USSR and 1 German.

Kubilyus, I. P. (Vil'nyus). On Distribution Values of Theoretical Number Functions. 5-6

Mention is made of Kolmogorov, A. N.

Levin, B. V. (Tashkent). On a Special Class of Differential Operators Which is Connected with the Theory of Modular Functions and the Theory of Numbers 6

AUTHOR: Kogoniya, P.G. 20-118-4-2/61

TITLE: Condensation Points of the Set of Markov Numbers (O tochkakh sgushcheniya mnozhestva chisel Markova)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol 118, Nr 4, pp 632-635 (USSR)

ABSTRACT: Let $\alpha = [0;a_1,a_2,\ldots,a_k,\ldots]$ be an arbitrary irrational number of the interval $0 < \alpha < 1$. Let $M(N)$ be the set of all α for which $\overline{\lim_{k\to\infty}} a_k = N$ $(N=1,2,\ldots)$. Further let $L(\alpha)$ be the lower bound of the set of all real numbers $c>0$ for which the inequation

$$\left|\alpha - \frac{p}{q}\right| < \frac{c}{q^2}$$

has infinitely many integral solutions $q>0,p$. The values $L(\alpha)$ are denoted as Markov numbers. Let $M_L(N)$ be the set of values $L(\alpha)$ if α assumes all values of $M(N)$.
Theorem: The minimal point of $M_L(N)$ $(N\geq 2)$ is a condensation point of this set.

Card 1/2

Condensation Points of the Set of Markov Numbers 20-118-4-2/61

Theorem: The maximal point $(N^2+4)^{-\frac{1}{2}}$ of $M_L(N)$ $(N \geq 1)$ is an isolated point of this set.

Theorem: The maximal condensation point of $M_L(3)$ is $\frac{22}{65+9\sqrt{3}}$.

Theorem: The minimal point $(N^2+4N)^{-\frac{1}{2}}$ of $M_L(N)$ for $N \geq 3$ is a point of the set $M_L(N+1)$.

There are 2 references, 1 of which is Soviet.

PRESENTED: July 10,1957, by A.N.Kolmogorov, Academician
SUBMITTED: June 26,1957
AVAILABLE: Library of Congress

Card 2/2

KOGONIYA, P.G.

Set of condensation points of a set of Markov numbers.
Trudy Mat.inst.AN Gruz.SSR 26:3-6 '59.
(MIRA 13:6)

(Aggregates)

KOGONIYA, P.G.

Maximum condensation point of one subset of a set of Markov numbers. Trudy Mat.inst.AN Gruz.SSR 26:17-22 '59.
(MIRA 13:6)

(Aggregates)

KOGONIYA, P.G.

Relation between Lagrange and Markov spectra. Part 4. Trudy Mat. inst. AN Gruz. SSR 29:15-35 '63. (MIRA 17:12)

KOGOREV, S.P.

112-2-3155

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 2, p. 92 (USSR)

AUTHOR: Kogorev, S.P., Kozodon, M.S.

TITLE: Control Points for Measuring Stray Currents in Street Lighting Cable Networks (Kontrol'nyye punkty dlya zamerov bluzhdayushchikh tokov v kabel'nykh setyakh naruzhnogo osveshcheniya)

PERIODICAL: Gor. kh-vo Moskvy, 1956, Nr 3, pp. 37-39

ABSTRACT: Control points for keeping a check on cathode and anode zone distribution in cable sheathing along the whole cable run are placed at a distance of 300 m from each other. The "Mossvetproyekt" TEU (Technical Electric Administration Office) has worked out designs for control points and developed methods of preparing cables for measuring stray currents in urban street lighting cable networks. It has also worked out a plan for installing control points in cable manholes, in street light pole bases or in sidewalk manholes. Cable manholes and pole bases are preferred for this purpose; control points are installed under the sidewalk only when it is not possible, along a 300 m stretch of low voltage cable run, to make use of existing structures (manholes, street light pole bases, etc). Provision for installing control points is obligatory when laying all cable line. They are built in and wired at the same time the cable is lowered into the trench.

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Control Points for Measuring Stray Currents in Street Lighting Cable Networks (cont)

It is possible to estimate the voltage drop over a length of one meter along the cable sheathing by measuring the potential difference between two end conductors, while the measurement of the voltage between any end and middle conductor gives the potential difference between the cable sheathing and the ground. T.G.T.

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KOGORODIN, V. I.

4

Reactivation of Yeast Cells of Various Ploidy Irradiated with Alpha Particles

V. I. Korogodin, V. Bliznik, L. I. Markova
and Ya. L. Shekhtman

The possibility of reactivation of radiation injury caused by polonium alpha-particles was investigated on ten yeast strains of various ploidy (from one to six chromosome sets). The survival curves for haploid cells had an exponential form, whereas the survival curves for cells of higher ploidy had a sigmoid form.

When yeast cells with two or more genomes were incubated after irradiation at 30°C in a nutrient medium, the survival rate increased substantially. The reactivation processes were virtually fully completed within 24 hr. The radiation injury to haploid cells was irreversible, just as in the case of γ-irradiation. In the case of one diploid strain (Megri-139-B) the degree of reversibility of a radiation injury caused by alpha particles was the same as the degree of reversibility of the lethal effects of γ-irradiation (about 60% of the given dose). The survival curve of reactivated cells was less curved.

The authors interpret their results on the basis of the hit theory. The lethal effect of alpha radiation on yeast with two or more genomes is caused by injury to several (in each cell) spatially separated elementary biological units, comparable in size with protein molecules. The injury to a large proportion of such elementary structures is potentially reversible.

Department of Biophysics, Faculty of Soil Biology of the Moscow State University and Biophysical Institute of the Academy of Sciences of the USSR, Moscow

(Session continued on next page)

report presented at the 2nd Intl. Congress of Radiation Research, Harrogate/Yorkshire, Gt. Brit., 5-11 Aug 1962

KoGOS, A.M.

KOROLEV, A.A., kandidat tekhnicheskikh nauk; KOGOS, A.M.; TOKARSKIY, A.P., NOSAL', V.V. GUREVICH, A.Ye., SHVARTSMAN, V.F.; KARPOV, V.F.; SHUL'MAN, P.G.; ADAMOVICH, N.K.; CHETYRBOK, P.M.; TSELIKOV, A.I., KUZ'MIN, A.D., kandidat tekhnicheskikh nauk; TIKHONOV, A.Ya., tekhnicheskiy redaktor.

[Blooming mill 1000] Bliuming 1000. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 271 p. (MLRA 8:8)

1. Chlen-korrespondent AN SSSR (for TSelikov)
(Rolling mills)

KOGOS, A.M.

AID P - 4251

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 9/33

Author : Kogos, A. M., Engineer

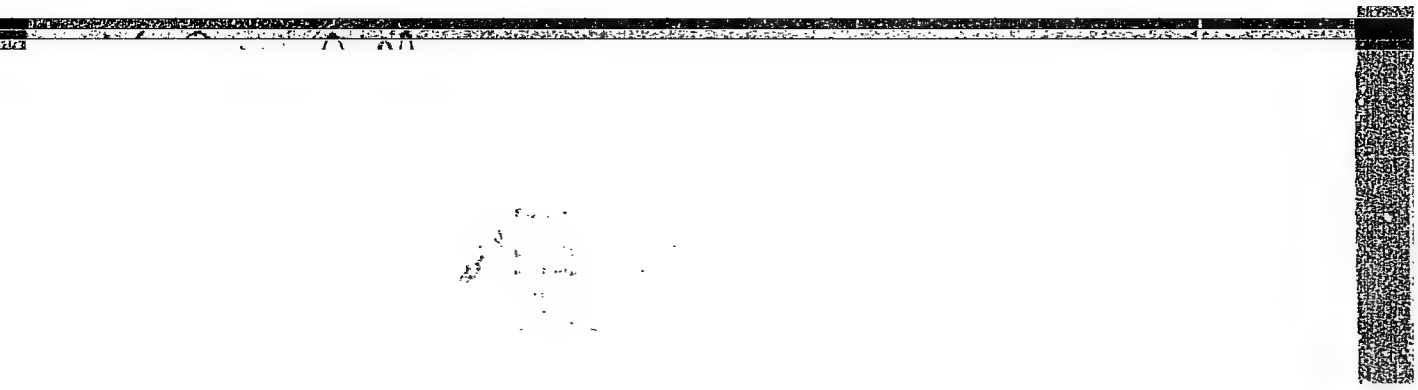
Title : Rolling Mill For Very Thin Steel Strips

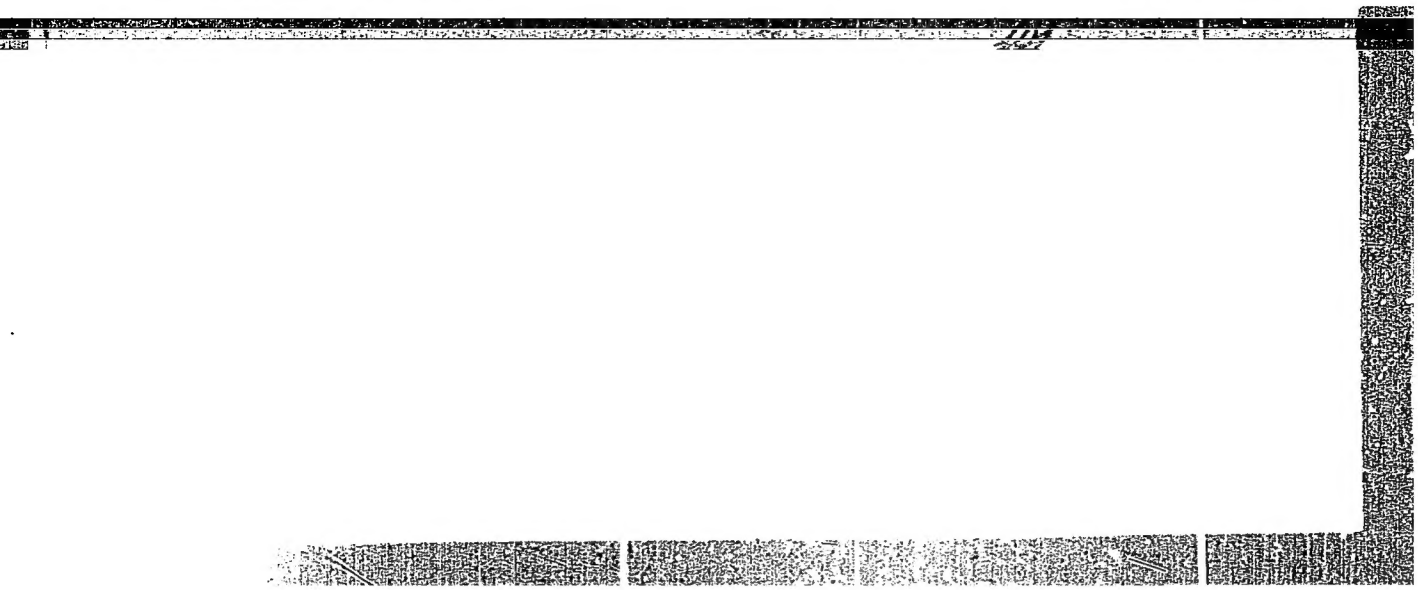
Periodical : Vest. mash., #1, p. 34, Ja 1956

Abstract : In the Central Scientific Research Institute of Machine Building and Metalworking (TsNIITMASh) a special 20-roller rolling mill has been designed and built for the production of very thin strips from special steels and alloys. The starting thickness is 0.15 mm, the final strip is 0.004 mm and 120 mm wide.

Institution : None

Submitted : No date





APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723620011-9"

SOV/137-57-10-19072

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 92 (USSR)

AUTHOR: Tselikov, A.I., Korolev, A.A., Kuz'min, A.D., Kogos, A.M., Solov'yev, P.I.

TITLE: Cluster-type Rolling Mills Designed by the TsKBMM of the TsNIITMASh (Mnogovalkovyye stany konstruktsii TSKBMM TsNIITMASh)

PERIODICAL: V sb.: Prokatn. stany: Nr 8, Moscow, Mashgiz, 1956, pp 5-26

ABSTRACT: A 12-roll cluster-type mill for the rolling of thin (down to 0.1-mm) and fine (down to 0.05-mm) strip has been designed by the TsKBMM of TsNIITMASh. The mill has a roll and a pinion stand, coilers ahead and behind, and a tapered uncoiler. The roll stand consists of a parallelepipedal cast-iron housing containing a cylindrical bored hole for the roll (R) adapter and two rectangular openings on the sides for the guides. Upper and lower adapters carry three R each and three shafts with four back-up rolls (BR). Of the three R in each adapter, one is of 38 mm diameter and 350 mm body length, and is a working roll, the other two 45-mm are driven intermediate rolls transmitting

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Cluster-type Rolling Mills Designed by the TsKBMM of the TsNIITMASh

pressure from the working R to the 110-mm diam BR. The latter are mounted without play in the adapter chocks, the upper driving and working R being suspended from the upper chock by springs, so that they are alwys compressed against each other and toward the BR, while the bottom chock lies free in the bottom portion of the housing. The pinion stand represents a combination of types. The mill-stand motor is of 100-kw power and runs at 980-1150 rpm. The mill R are of Nr 12KhN2A steel, the H_{sh} of the working surface being 100-105; the driving rolls are of Nr 20KhN3A steel, with an H_{sh} 95-100; the BR are of Nr 9Kh steel. The rolling rate is 1-5 m sec, and the maximum permissible rolling pressure is 35,000 kg. The working and back-up R have circulating lubrication, machine oil being used. The coilers are located on both sides of the mill stand and make it possible to roll with tension both in front and behind. The maximum tension on the strip is 3600 kg, and the diameter of the coiling drum is 300 mm. The coiler motors are of 81.6 hp each. The weight of the mill is 25 t. The following is the rolling flowsheet. Annealed and pickled coils, 0.2-0.5 mm thick and up to 300 mm wide, of steels 0.8, U7A to U12A, EI142, 20S2, 65G, 50KhFA, and others, are delivered to a conical uncoiler and are mounted thereon by a lift table. The end of the strip goes from the uncoiler through the mill R and is fastened to the drum of the rear coiler. The strip is then placed under tension and the

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rolling rate is increased to the desired level. Before the end of the coil leaves the uncoiler the stand and coiler are switched to servicing speed, and the mill is stopped and reverses itself. The end of the strip is guided into the front coiler and a second pass begins, during which back tension on the strip is provided by switching the coiler motor to generator operation. Rolling continues until 2 or 3 coils are left on the drum of the rear coiler, whereupon the motors are switched to minimum speed, stopped, and reversed for the next pass, etc. The coil of finished strip is taken from the coiler by a special knock-out and is delivered for trimming of the side edges or annealing. 237-mm wide strip of Kh0.5 steel is rolled from 0.37 to 0.105 mm in 6 passes with an 8.7-23% reduction per pass and a single intermediate anneal, R adapters on roller bearings being used. The precision of rolling, based on thickness, for strip not over 0.10 mm thick, is within a tolerance of ±0.005 mm. The average output of the mill is 3.0-3.5 t thin strip per shift.

V.Zh.